Channel coding method for high definition digital television signal

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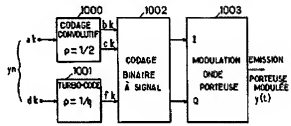
Abstract of **FR2724522**

The method involves coding a first set of conventional binary picture elements (ak) using convolution coding (1000). For each binary element in the first set, a first group of binary elements define a point from four in a first sub-constellation. The argument of the phase corresponds to one of the four phase states of the modulation frequency. A second set of high definition elements are turbo-coded simultaneously in parallel to form a second sub-constellation with phase argument equal to a multiple of half a determined phase value. A carrier wave is phase-modulated (1003) and decoding (2002,2005) the superposition of sub-constellations yields a modulation with 16 phase states corresp. to binary values of both groups.



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